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5/008 (2013.01)(71) Applicant: **Uber Technologies, Inc.**, San
Francisco, CA (US)(72) Inventors: **Matthew Sweeney**, Pittsburgh, PA
(US); **Emily Bartel**, Pittsburgh, PA
(US); **Jean-Sebastien Valois**,
Pittsburgh, PA (US)(21) Appl. No.: **15/358,033**(22) Filed: **Nov. 21, 2016****Related U.S. Application Data**(60) Provisional application No. 62/258,066, filed on Nov.
20, 2015.(57) **ABSTRACT**

Systems for controlling autonomous vehicles are disclosed. Using one or more location detection resources, the system can receive vehicle data from an autonomous vehicle as the autonomous vehicle progresses towards a pickup location of a requesting user and receive requester data from a mobile computing device of the requester. The system can determine when the autonomous vehicle and the requester are at or within a threshold distance of the pickup location. Subsequently, the system can instruct the autonomous vehicle to perform one or more non-driving operations to facilitate use of the autonomous vehicle by the requester.

